

In the Specification:

Please amend the specification as follows:

Page 4, third full paragraph:

In this way the display already used to visualize results and to provide a user interface required in all of these computerized techniques, may become a large area light source with configurable properties able to supply all the techniques simultaneously. According to one embodiment, a color, size, shape, modulation and background color of an illuminating area are configured through a user interface.

Paragraph bridging pages 12 and 13:

FIG. 7. Programmed screen assisted VIS spectroscopy for color identification of chemically sensitive arrays. The same display used as control interface provides colored light according to FIG. 5, in selected regions of the screen facing individual elements of the sample array. For instance, a glass substrate 71 is suspended on a portion of the screen 72. On this glass substrate a DNA labeled array 73 face the screen and on the other side of the substrate a single large area photodetector 74 is arranged covering the entire area of the DNA labeled array. The photodetector delivers its signals to an electronic interface 75 that delivers the signal to the computer 76. The screen under the glass substrate constitute a large area light emitting window 77, that in turn can illuminate the different elements of the array (one at time) with modulated

multiple wavelength light. For each element on the glass substrate a multi-wavelength spectral response can be recorded. The resulting spectra are displayed in the same computer screen.

According to one embodiment, displaying test results includes displaying a chemical or biochemical image using a photocurrent color coded scale. Expert evaluation of data and array interpretation can be provided by the computer itself or on line via internet. Additionally, if necessary it is possible to focus the light from the screen using diffractive or refractive lenses between the screen and the sample. According to one embodiment, a magnifying lens is arranged between the test sample and the detector.